



A Safe and Efficient Berkeley Lab



LBNL Work Planning and Control

why revamp Work Planning & Control?

HSS: “*Needs Improvement*”





voice of our CUSTOMERS

Current State Work Planning & Control

Job Hazards Analysis

Radiological Work Authorization

Activity Hazard Document Biological Use Authorization

Division Offsite Work Planning and Control Processes

Crane & Powered Industrial Truck Operator Permit
Qualified Electrical Worker



Future State  Activity Manager

Activity-Based Work Authorization Process

- All work described and analyzed in a single system
- Integrated hazards analysis
- Process adaptable to meet divisions' needs

Improved Communication

- Co-located hazards
- Easy access to pertinent information: SOPs, Lessons Learned, PUB-3000, how-to videos
- Activity-specific and division-specific controls
- Worker-specific authorization level communications



WPC Risk-based Hazards Analysis

Risk Level 1

- Hazards are straightforward
- Controls are well documented
- Failure to utilize controls may result in (worst case) non-serious, non-debilitating injury
- Similar to those listed in and analyzed by the present Job Hazards Analysis system

Risk Level 2

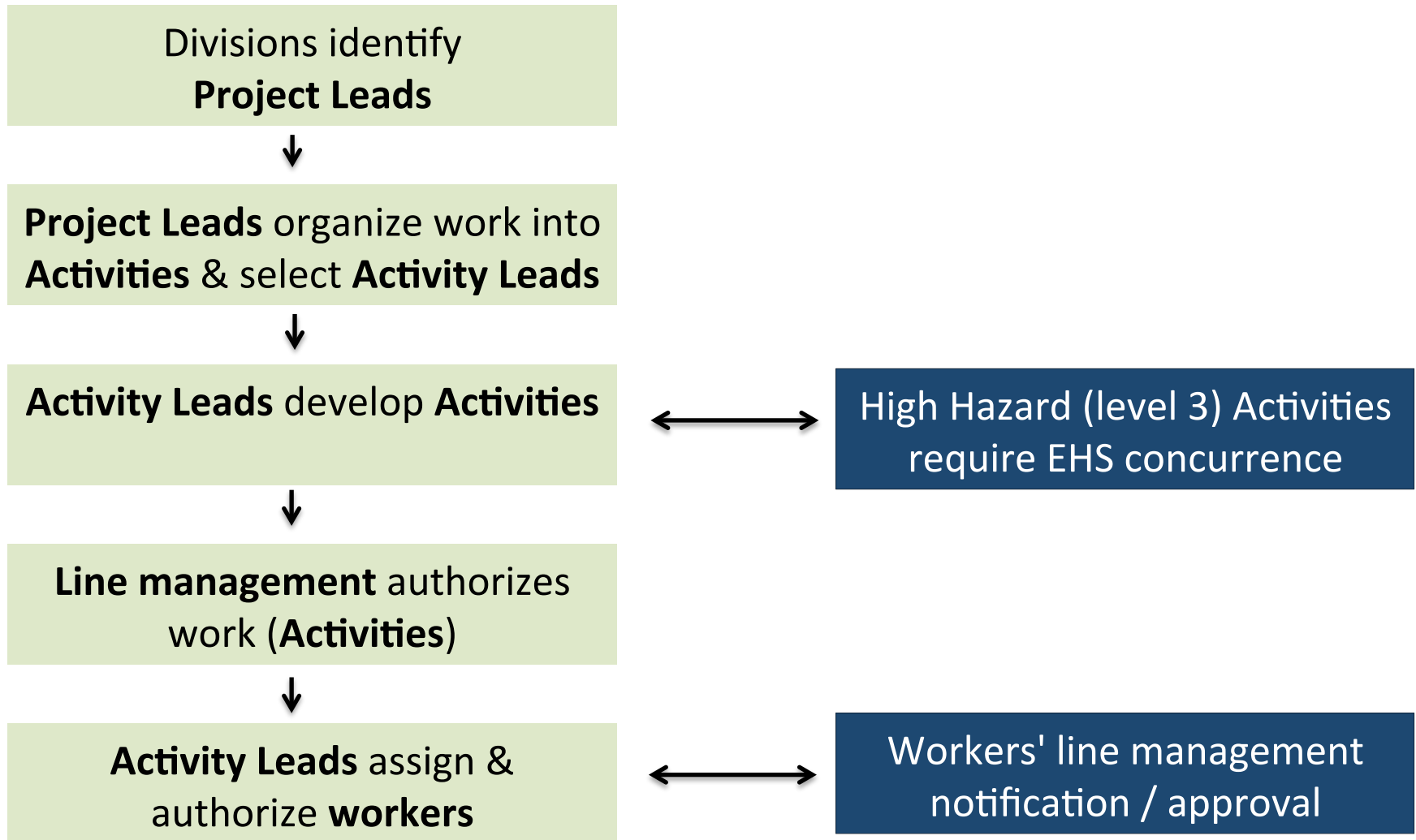
- Higher probability of injury, injury more serious, etc. (e.g., common corrosives or solvents; non-critical lift crane operations; forklift driving)
- Controls are less straightforward or more situational

Risk Level 3

- Hazards here typically exceed a published policy “Trigger” level
- Controls are subject to SME concurrence
- Similar to those presently subject to AHD or other formal authorization



Future State Activity-based WPC





Activity-based Work Planning & Control

Robert Kostecki project lead

Electrochemical Technologies



Electrochemical Spectroscopy
(including Li Metal) risk level 3

Lithium Metal Use
risk level 3

Li-ion Battery Diagnostics
risk level 3

Angelique Jarry activity lead

Angelique Jarry activity lead

Jaroslav Syzdek activity lead



EHS concurrence

EHS concurrence

EHS concurrence



EETD line management approves Activities



Activity Lead assigns and authorizes workers



Workers' line management approves workers' assignment/authorization



Activity-based Work Planning & Control

Brett Singer project lead

Indoor Environment Group



Lab - Wet Chemistry
risk level 2

Lab - w/out Wet Chemistry
risk level 2

Home Energy Retrofit
risk level 1

Randy Maddelena activity lead

Brett Singer activity lead

Doug Black activity lead



EETD line management approves Activities



Activity Lead assigns and authorizes workers

Marie Tysman

Jennifer Logue

Henry Willem



Workers' line management approves workers' assignment/authorization

PL/AL = Supervisor/Work Lead, no extra step

Alex Lekov notified



WPC Activity Manager

Application Demonstration

Analyze Hazards

Home > Create Activity > Select Hazards

2
RISK
LEVEL

CREATE ACTIVITY: SELECT HAZARDS



BIOLOGICAL CONFINED SPACE CHEMICAL CRYOGEN ERGONOMIC ELECTRICAL FALL PROTECTION
FIRE PROTECTION HAZARDOUS GASES LASER/NIR RADIOLOGICAL SHOP SAFETY WASTE MANAGEMENT SEE MORE

FIELD WORK HAZARDS

Environmental Threats

fluid injection, tracer release, biotic sample collection...

Environmental Hazards

Ticks

Snakes

Etc.

Other

**Customized hazards and controls
for off-site work**



Hazards basket

Hazard 1

Risk level 2

Location hazard



Hazard 2

Risk level 1

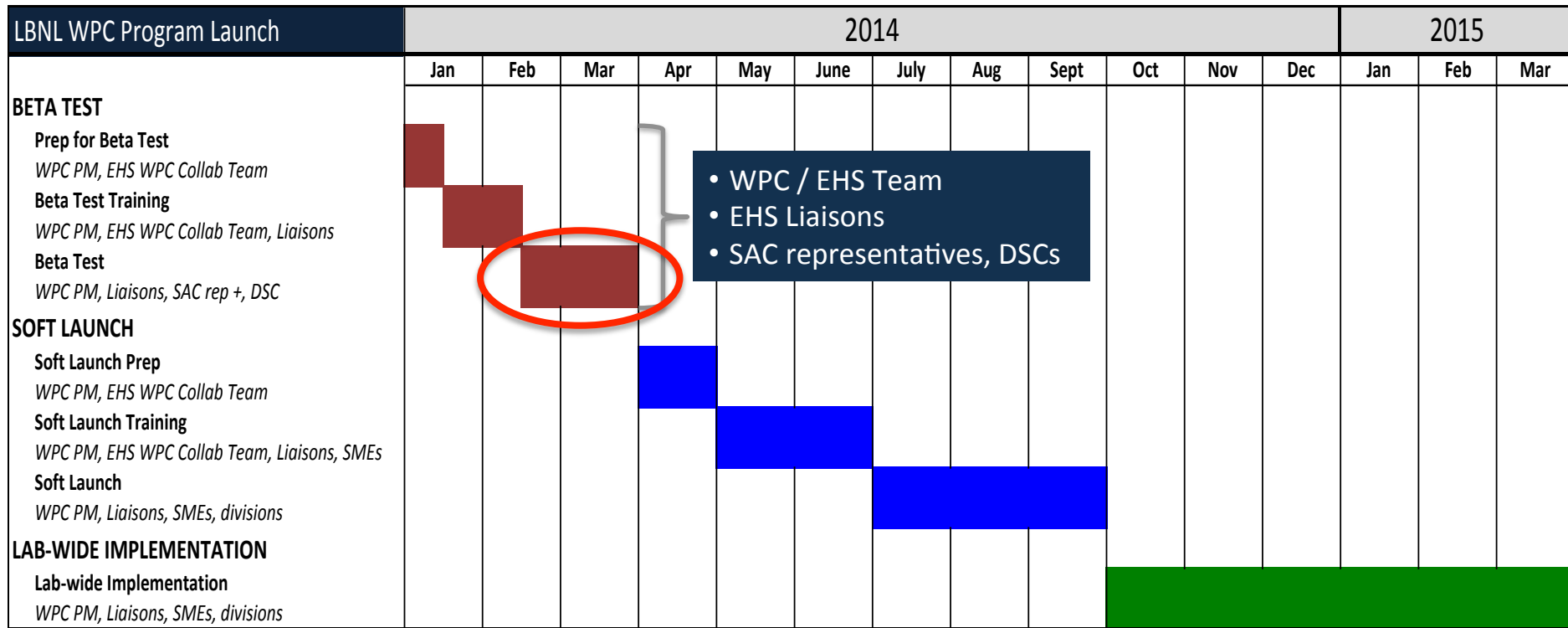
Location hazard



area



WPC Timeline: 2014-2015





WPC Beta Test

When: *January – March 2014*

What:

- roles & responsibilities “dry run”*
- project/activities set-up*
- hazards/controls content review*
- Activity Manager system user testing*

Who: *WPC PM, EHS WPC Collaboration Team, EHS liaison, Safety Advisory Committee, Division Safety Coordinators*

Why: *feedback: policy, process, application*



WPC Timeline: 2014-2015

